



CONSTRUCTION INGRESS/EGRESS MAP

SCALE: 1 in. = 300 ft.



UNIVERSAL REFERENCE CONSTRUCTION PLANS

- UTILITIES INFRASTRUCTURE CIVIL (PART 2 OF 3)
 UTILITIES INFRASTRUCTURE
- BUILDING GROUP NO. 66 4. SPECIFIC PURPOSE TOPOGRAPHIC SURVEY PREPARED
- BY JMR SURVEYING GROUP, REVISED 11/30/11
 5. GEOTECHNICAL ENGINEERING REPORT PREPARED BY PSI DATE 9/23/2011 (PSI PROJECT No. 0757628)
 6. PROJECT 722 LAND SITE DEMO

SITE CIVIL SHEET INDEX			
C101	KEY MAPS / SHEET INDEX		
C102	NOTES / ABBREVIATIONS / LEGEND		
C201-C204	MASS GRADING / EROSION CONTROL PLAN		
C302-C307, C309	MAIN UTILITY TIE-IN PLAN		
C310 C312	UTILITY DETAILS		





THIS DOCUMENT CONTAINS COPYRIGHTED MATERIAL BELONGING EXCLUSIVELY TO UCDP. UNAUTHORIZED USE, DISCLOSURE, DISSEMINATION, OR DUPLICATION OF ANY OF THE INFORMATION CONTAINED HEREIN MAY RESULT IN LIABILITY UNDER APPLICABLE LAW. © UCDP. All rights reserved.



NOT FOR CONSTRUCTION UNLESS SIGNED AND SEALED

JEFFERY W. BANKER, P.E. REGISTRATION No. 64122



	2.29.12	PERMIT SUBMITTAL

Rev. Date Issues and Revisions

Checked RM/JB

Drawn WZ/BM/GB Date 2.29.12 ... USO-005 CONSTRUCTION

PROJECT 722

Building/Attraction

LAND MAIN UTILITY TIE-IN AND MASS GRADING

KEY MAPS / SHEET INDEX

Scale AS NOTED

Sheet No.

GENERAL NOTES

- 1. It is the responsibility of the contractor to ensure that all required permits are obtained and are in hand at the job site prior to the commencement of construction. Contractor shall abide by all conditions contained therein. Permits included, but not necessarily limited to, are as follows:
 - a. Engineering Permit City of Orlando
 - b. General Permit South Florida Water Management District
 - c. NPDES Notice of Intent Florida Department of Environmental Protection (See Erosion Control Note #1)
- 2. Contractor is responsible for paying for and obtaining the City of Orlando Engineering Permit. In conjunction therewith, the Contractor shall prepare a haul route plan for importation of fill, and submit the same to the City of Orlando in conjunction with obtaining the City of Orlando Engineering Permit.
- 3. Florida Law (F.S. 553.851) Protection Of Underground Gas Pipelines mandates that "no excavator shall commence or perform any excavation in any public or private street, alley, right—of—way dedicated to the public use, or gas utility easement without first obtaining information concerning the possible location of gas pipelines in the area of the proposed excavation". This includes any operation utilizing hand tools or power tools which moves or removes any structure, earth, rock, or other mass of material by such methods as digging, backfilling, demolition, grading, ditching, drilling, boring and cable plowing. The excavator (i.e. Contractor) must notify the gas utility a minimum of 48 hours and a maximum of 5 days prior to excavating (excluding Saturdays, Sundays, and Holidays).
- 4. Contractor shall notify all applicable utility companies (including but not limited to water, sewer, power, telephone, gas and cable TV companies) of proposed start of work in accordance with their standard requirements.
- 5. Prior to commencement of work, Contractor shall provide a construction schedule for various site work elements to the Owner.
- 6. The locations of existing utilities and storm sewer improvements shown on the drawings are based on record construction plans and are given for the convenience of the Contractor. Prior to the start of construction, it shall be the Contractor's responsibility to make arrangements for field locations (and for relocations if necessary) of the various utilities with the utility company providers, which shall be done in a timely fashion so as to not impact the construction schedule. Any delay or inconvenience caused the Contractor by relocation of the various utilities shall be incidental to the contract and no extra compensation will be allowed.
- 7. The Contractor shall field verify the location and invert elevation of all tie—in points and/or points of conflict with other utilities for which asbuilt survey data is not known, prior to the fabrication of structures and installation of the utility improvements depicted by these drawings.
- 8. The Contractor shall immediately notify the Owner in writing of any discrepancies from that which is represented by these drawings, whether above, on or below the surface of the ground, prior to construction in the area impacted by the discrepancy. If Contractor fails to provide the required written notification of such conditions, no claim for expenses incurred by the Contractor due to differing site conditions will be allowed.
- 9. Contractor shall be responsible for furnishing and installing proper traffic maintenance and controls in accordance with regulatory standards. A Maintenance of Traffic Plan shall be prepared and submitted by Contractor for approval by Owner, Engineer and applicable local government.
- 10. It is the Contractor's responsibility to secure the project site during construction, and to prevent trespassing of unauthorized pedestrians and/or vehicles in all work areas. The Contractor shall post signs, construct barriers or implement other methods necessary to control access.
- 11. Trench safety measures are the responsibility of the Contractor, and shall comply with Florida Trench Safety Act. Contractor shall conform to OSHA standards (29CFR Section 1926.650). The Contractor shall provide written assurance of compliance with all applicable laws.
- 12. Electrical, chilled water, and gas piping/facility improvements depicted by the Civil Drawings are shown for reference/coordination purposes only. Contractor shall refer to the project Mechanical/Plumbing Drawings and/or Electrical Drawings for related design requirements and details.
- 13. Vehicular ingress/egress to the the project site shall be as depicted on the Construction Ingress/Egress Map (Sheet C101). Contractor must install and maintain Soil Tracking Prevention Devices (Type A) consistent with FDOT Index 106 at construction entrances. Contractor shall sweep the construction ingress/egress roadways and service driveways routinely to maintain them free of dirt accumulation.

MASS GRADING/DEMOLITION NOTES

- 1. Existing at grade topographic data and below grade conditions depicted by these drawings are not warranted to be completely accurate or comprehensive due to ongoing site demolition activities. Contractor shall review record construction plans, conduct site inspections and perform supplemental topographic surveys as necessary to become fully familiar with the above and below ground site conditions in support of their bid and to perform the proposed Main Utility Tie—in/Mass Grading work.
- 2. Main Utility Tie—in/Mass Grading activities shall be performed in such a manner so as to not damage the Main Lagoon retaining walls, and/or the lagoon bottom slabs/gunite liner. Contractor will be responsible for repair of any such damage at no cost to the Owner.
- 3. The identified monitoring well area limits must be enveloped with a 4 ft high orange mesh construction warning fence, and shall not be disturbed by construction activities.
- 4. Existing pavements within the designated construction access route and/or adjacent to the defined demolition limits shall be protected from damage. Any damage resultant to Contractor's vehicular traffic and/or construction activities shall be repaired at no cost to the Owner.
- 5. Demolition materials, facilities, etc., as depicted and/or noted by these Drawings, shall be removed from Owners property shall be legally disposed in conformance with applicable regulations at an Owner approved dump site.
- 6. Portions of the storm sewer piping identified for connection to are submerged below the normal water elevation of the Main Lagoon. Contractor shall install temporary pipe plugs as necessary to isolate the existing storm sewer system. Temporary plugs are to remain in—place for only enough time to facilitate connection to the system. Temporary plugs shall not be employed in any manner which causes to block flowage of the existing storm sewer system.
- 7. Contractor shall maintain the existing temporary 8 ft high chainlink fence with green privacy fence fabric ("Chianlink Privacy Fence") and wood privacy fence perimetering the project limits. All fencing shall remain after completion of the construction activities activities.
- 8. Suitable fill soils are available from Universal Lot "F". Contractor shall coordinate with Owner to understand the limits/amount of available soils.

EROSION CONTROL NOTES

construction activities.

- The erosion control improvements depicted by these plans were required of the Project 722 Demolition Contractor and are considered to be existing. The Mass Grading/Main Utility Tie—In Contractor shall review the condition, completeness and sufficiency of the installed erosion control improvements to facilitate the proposed Mass Grading/Main Utility Tie—In site improvements. The Mass Grading/Main Utility Tie—In Contractor's bid shall include and and all costs associated with the installation of additional needed erosion control protection measures and for the maintenance of all of the erosion protection improvements for the duration of the Mass Grading/Main Utility Tie—In site improvements.
- 2. Protection Agency (EPA) and Florida Department of Environmental Protection (FDEP) requires that operators submit a Notice of Intent (NOI) for stormwater discharges associated with construction activity under the NPDES General Permit prior to beginning work. Contractor shall coordinate with FDEP to prepare, submit and obtain an FDEP NOI. Contractor shall also be responsible for preparation and maintenance of the related Stormwater Pollution Prevention Plan (SWPPP). The SWPPP shall be kept at the job site, and shall be updated and maintained in accordance with EPA requirements. Contractor shall provide copies of the NOI submittal, SWPPP, and updated reports shall be provided to Owner and Engineer.
- 3. Erosion control devices must be installed as necessary prior to commencement of construction, and shall be maintained in accordance with the appropriate erosion and sedimentation control rules and guidelines.
- 4. Existing storm sewer inlets shall be protected by the appropriate device(s), which shall be maintained and modified as required by
- 5. Erosion control devices shall remain after completion of demolition activities.
- Contractor shall employ all reasonable measures to insure against polluting, silting, or disturbing to such an extent as to cause an increase in turbidity to the existing drainage system. Methods may include, but are not limited to floating turbidity barriers, construction of temporary erosion control structures such as sediment basins, sediment checks, silt barriers, or silt screens. Measures shown or detailed in these drawings shall be considered minimum requirements and do not alleviate Contractor from the responsibility of implementing necessary protective measures.

UTILITY POINT OF CONNECTION NOTES:

be resused or replaced if necessary.

- 1. <u>WATERMAIN AND FIRE PROTECTION MAIN:</u>
 Contractor shall cut existing pipe or remove existing pipe to the existing gate valve, and/or remove existing plug at locations identified by the Drawings.
- 2. <u>SANITARY SEWER GRAVITY PIPES:</u>
 At all sewer later connection points identified by the drawings, contractor shall remove existing pipe and/or cap and install cleanout as required. At all manhole connection points identified by the drawings, contractor shall remove existing gravity sewer pipe and use existing invert, existing boot shall
- 3. CHILLED WATER SUPPLY/RETURN AND GAS PIPES:
 Depicted points of connection identified by these Drawings are shown for reference purposes only. Contractor shall refer to Mechanical/Plumbing plans and/or notes included in the Architectural Drawings for chilled water supply/return and gas pipe details.,
- 4. Contractor shall not operate any of the watermain, fire protection main or irrigation system gate valves without prior written request and approval by Owner.
- 5. Contractor shall immediately repair any incidental damage to existing utilities located on the supply side of the identified Points of Connection at no additional cost to the Owner.
- 6. Contractor shall immediately notify Owner of any existing utility system improvements discovered which are not depicted by these Drawings and/or record construction plans.

GEOTECHNICAL NOTE:

- 1. Existing subsurface soils conditions are address by record "Building Group No. 66" Construction Drawings and by the Geotechnical Engineering Report prepard by PSI dated 9/23/2011 (PSI Project No. 0757628). The PSI report addresses additional geotechnical conditions and includes recommendations related to site preparation. Contractor shall familiarize himself with these documents prior to his bid, and shall comply with the recommendations included therein.
- 2. Contractor shall excavate unsuitable subgrade soils from the site, and transport/stockpile the same at Lot "D". Stockpiled materials shall be rough graded at the direction of the Owner.

TOPOGRAPHIC GRADING NOTE:

1. The existing topographic data represented by these plans are not necessarily representative of existing site conditions due to ongoing site demolition activities. Contractor shall review record construction plans, conduct site inspections and perform supplemental topographic surveys as necessary to support their bid and to perform the proposed mass grading work

HORIZONTAL/VERTICAL CONTROL NOTES

- 1. Refer to map of Specific Purpose Topographic Survey prepared by JMR Surveying Group, dated 11/30/11, for horizontal/vertical control datum.
- Contractor shall be responsible for protecting all existing survey monumentation. Disturbed monumentation shall be restored by a Florida licensed land surveyor selected by the Owner at Contractor's expense.
- 3. Benchmark location and elevation are as represented by surveyor at the time of the survey. Contractor shall verify its correctness at time of construction.
- 4. Project Engineer will provide CADD files of the applicable construction plan sheets to the Contractor for horizontal layout of utility and mass grading improvements.
- 5. Northing and Easting coordinates provided by these drawings indicate the point of intersection of adjoining pipes associated with valves, tees, bends, and other fittings for all WM, FPM, CHWSR and GAS mains

ASBUILT NOTES

- 1. Contractor shall perform a certified as built survey of the potable water, fire protection water, sanitary sewer, storm sewer, gas, and chilled water improvements. The asbuilt survey data shall include the pipe material, diameter, invert elevation and horizontal coordinates of the utility system improvements.
- 2. Contractor shall provide the asbuilt survey to Owner in both CADD and hardcopy.
- The Contractor shall perform, at his own expense, a video DVD and laser profile and measurement of all stormwater collection system piping in accordance with the requirements outlined in Section 7.05.04 of the City of Orlando Engineering Standards Manual, most recent edition. The video DVD and laser profile shall be submitted to the Project Engineer and certified by the company performing the work to be in compliance with the calibration criteria posted at:
- http://www.dot.state.fl.us/construction/ContractorIssues/Laser.htm.
- 4. The Contractor shall perform, at his own expense, a closed circuit TV inspection of all wastewater collection system piping in accordance with the requirements outlined in Section 9.03.05 of the City of Orlando Engineering Standards Manual, most recent edition. A video DVD along with the TV inspection logs shall be submitted to the Project Engineer.

LEGEND

	EXISTING WATER MAIN
-FPM	EXISTING FIRE PROTECTION MAIN
—IRR- —— - ——	EXISTING IRRIGATION MAIN
-CHW· ·	EXISTING CHILLED WATER SUPPLY/RETURN MAIN
-SAN	EXISTING SANITARY SEWER MAIN
——G———	EXISTING GAS MAIN
—ELEC	EXISTING ELECTRICAL/COMMUNICATION LINE
	SILT FENCE
	FLOATING TURBIDITY BARRIER
F6-12	BUILDING IDENTIFICATION
	WATERMAIN
FPM	FIRE PROTECTION MAIN
G ———	GAS MAIN
CHWSR ———	CHILLED WATER SUPPLY AND RETURN MAIN
<u> </u>	SANITARY SEWER
6" SSL	SANITARY SEWER LATERAL
	STORMWATER PIPE
	REMOVE AND REPLACE EXISTING ASPHALT PAVEMENT AND BASE
	REMOVE AND REPLACE EXISTING PAVERS AND BASE
	FUTURE BUILDING/STRUCTURE

ABBREVIATIONS

BOC	BACK OF CURB
CHWSR	CHILLED WATER SUPPLY/RETURN
CWE	CONTROL WATER ELEVATION
E/P	EDGE OF PAVEMENT
FM	FORCE MAIN
FPM	FIRE PROTECTION MAIN
G	GAS MAIN
IRR	IRRIGATION
POS	POINT OF SEVERANCE
SAN	SANITARY SEWER
ST	STORM SEWER
WM	WATER MAIN
GV	GATE VALVE





THIS DOCUMENT CONTAINS COPYRIGHTED MATERIAL AND CONFIDENTIAL TRADE SECRET INFORMATION BELONGING EXCLUSIVELY TO UCDP. UNAUTHORIZED USE, DISCLOSURE, DISSEMINATION, OR DUPLICATION OF ANY OF THE INFORMATION CONTAINED HEREIN MAY RESULT IN LIABILITY UNDER APPLICABLE LAW.



NOT FOR CONSTRUCTION UNLESS SIGNED AND SEALED

JEFFERY W. BANKER, P.E.
REGISTRATION No. 64122



Rev.	Date	Issues and Revisions
	2.29.12	PERMIT SUBMITTAL
Check	red RM/	JB
Drawr		M/GB Date 2.29.1

PROJECT 722

USO-005

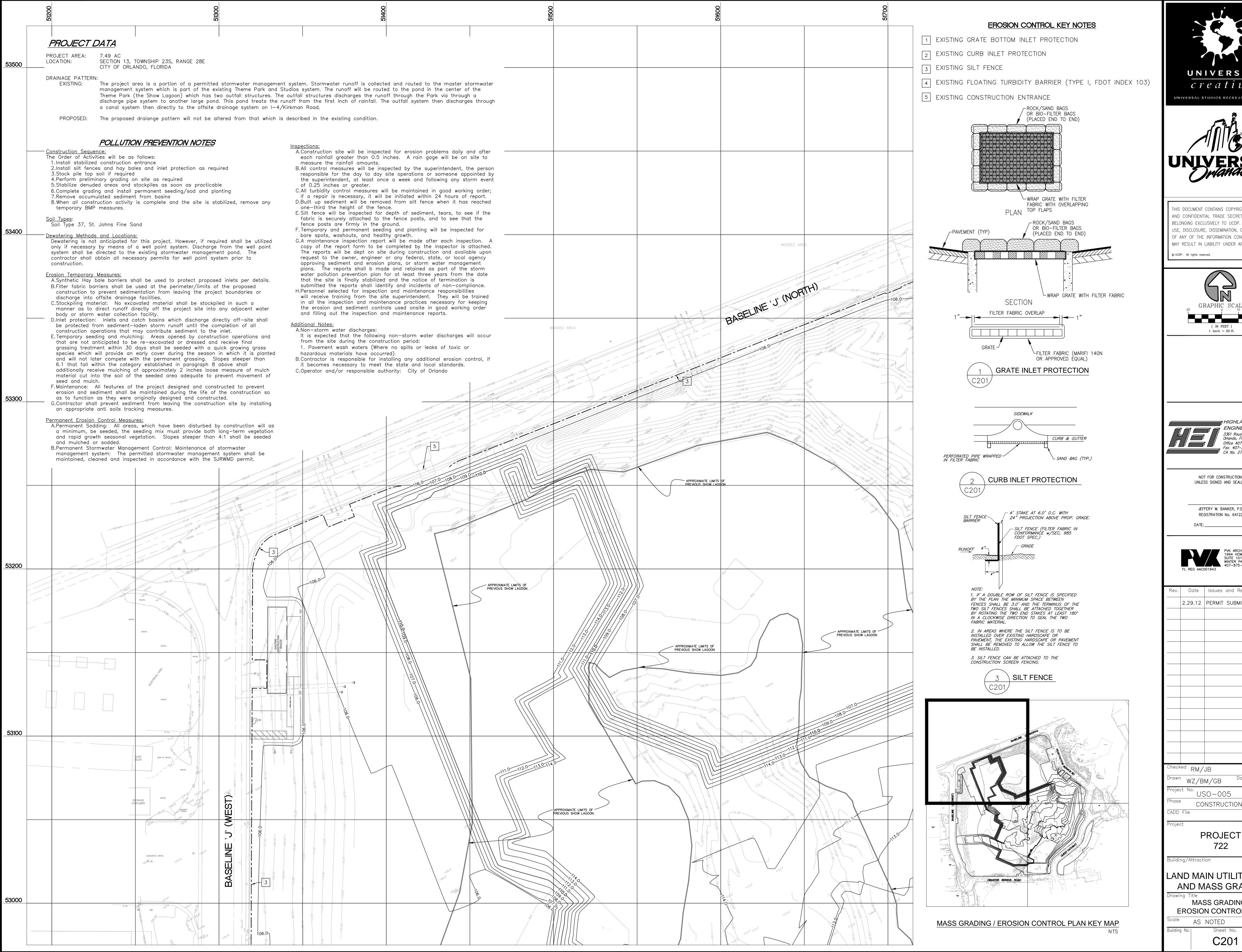
CONSTRUCTION

LAND MAIN UTILITY TIE-IN AND MASS GRADING

NOTES / ABBREVIATIONS /
LEGEND

Scale AS NOTED

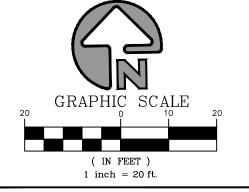
Building No.| Sheet No.







THIS DOCUMENT CONTAINS COPYRIGHTED MATERIA MAY RESULT IN LIABILITY UNDER APPLICABLE LAW





NOT FOR CONSTRUCTION UNLESS SIGNED AND SEALED

JEFFERY W. BANKER, P.E. REGISTRATION No. 64122



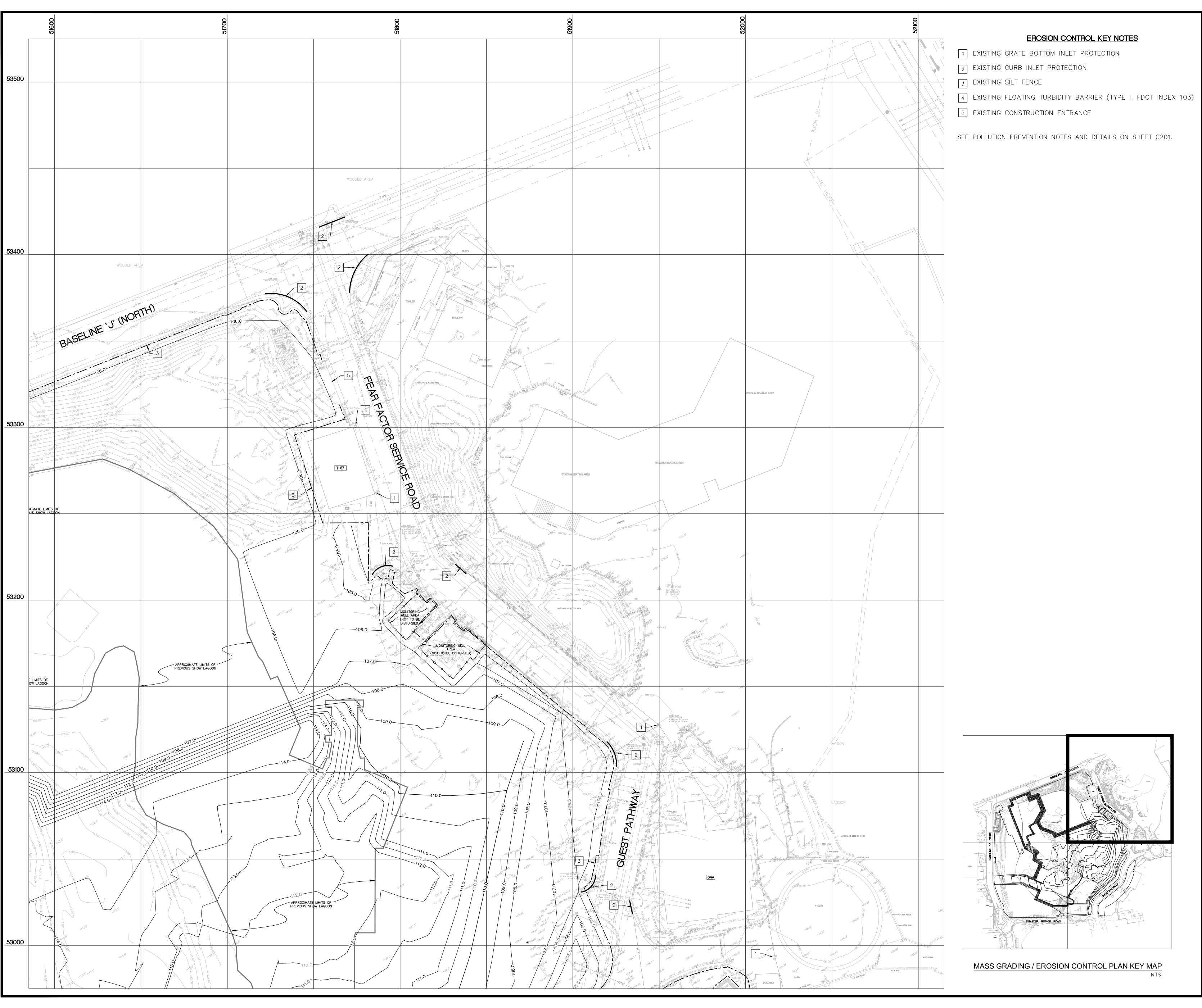
Rev.	Date	Issues and Revisions
	2.29.12	PERMIT SUBMITTAL

WZ/BM/GB USO-005 CONSTRUCTION

722

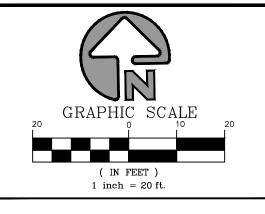
LAND MAIN UTILITY TIE-IN AND MASS GRADING

MASS GRADING / **EROSION CONTROL PLAN**











NOT FOR CONSTRUCTION UNLESS SIGNED AND SEALED

JEFFERY W. BANKER, P.E. REGISTRATION No. 64122



Rev. Date Issues and Revisions 2.29.12 PERMIT SUBMITTAL

	-			
	-			
,	-			
MORINI				
	-			
- Jan Floring				
	Classal	, , ,		
		ked RM/	JB	
	Drawn) WZ/D	M /OD	Date 2 20 10

WZ/BM/GB 2.29.12

PROJECT 722

LAND MAIN UTILITY TIE-IN AND MASS GRADING

Drawing Title

MASS GRADING / EROSION CONTROL PLAN

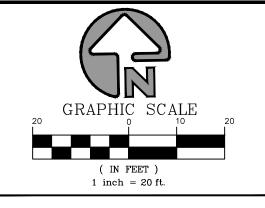
AS NOTED Sheet No.







THIS DOCUMENT CONTAINS COPYRIGHTED MATERIAL AND CONFIDENTIAL TRADE SECRET INFORMATION BELONGING EXCLUSIVELY TO UCDP. UNAUTHORIZED USE, DISCLOSURE, DISSEMINATION, OR DUPLICATION OF ANY OF THE INFORMATION CONTAINED HEREIN MAY RESULT IN LIABILITY UNDER APPLICABLE LAW.





NOT FOR CONSTRUCTION UNLESS SIGNED AND SEALED

JEFFERY W. BANKER, P.E. REGISTRATION No. 64122



Rev. Date Issues and Revisions

2.29.12 PERMIT SUBMITTAL

Drawn (-... (

iect No.

se CONSTRUCTION

CADD File

PROJECT

Building/Attraction

LAND MAIN UTILITY TIE-IN
AND MASS GRADING
Drawing Title

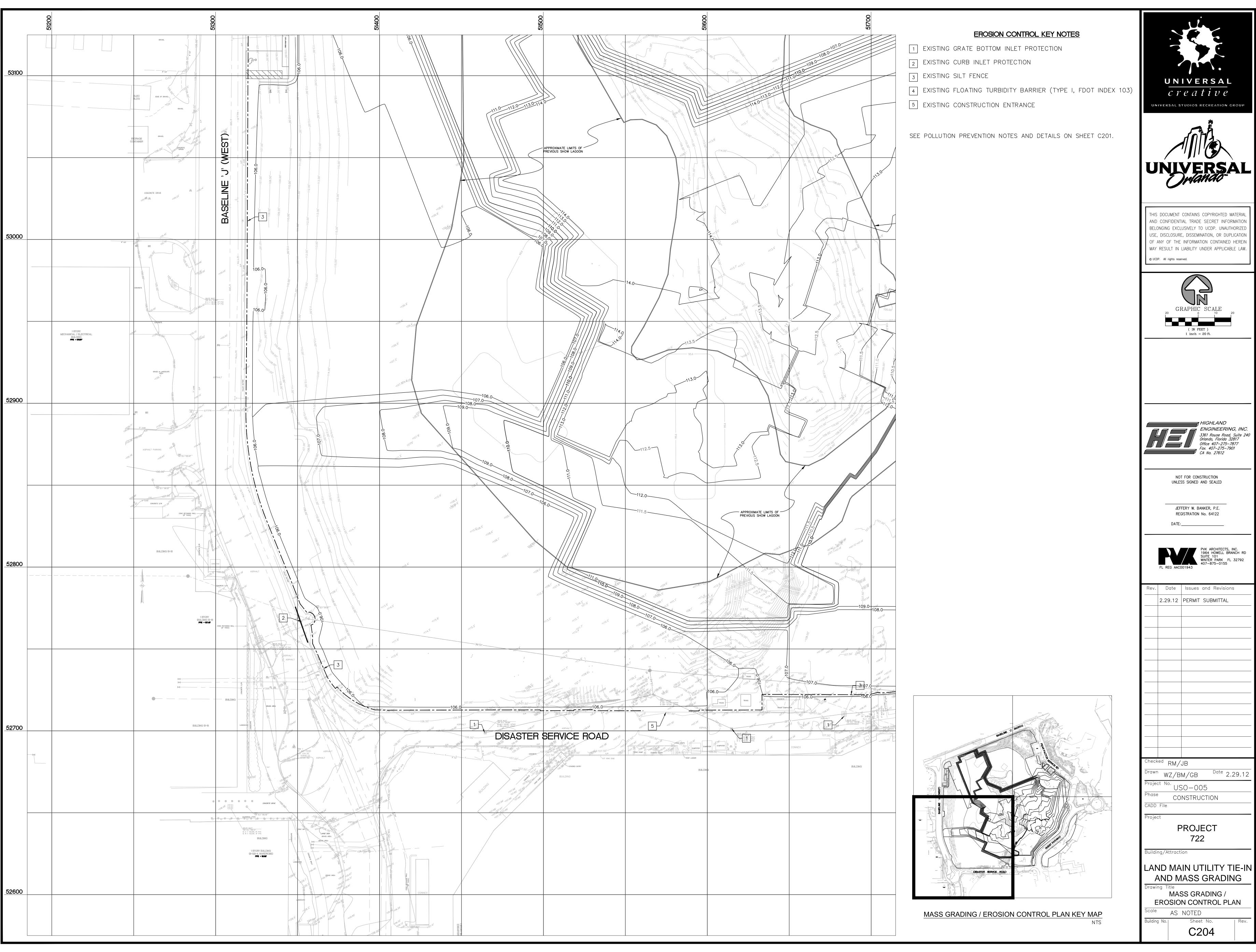
Drawing Title

MASS GRADING /

EROSION CONTROL PLAN

Scale AS NOTED

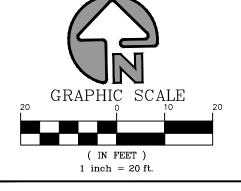
Building No. Sheet No. C203







MAY RESULT IN LIABILITY UNDER APPLICABLE LAW







Rev. Date Issues and Revisions

\bigcirc L \sim L		

awn	WZ/BM/GB	Date	2.29.12
oject	No. USO-005		
nase	CONSTRUCTION	NC	

AND MASS GRADING